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Installation Instructions

153630 (-001 & -003)

Handpiece Illumination System

[for ProCenter Delivery Units]

STANDARD HANDPIECE TUBING REMOVAL

(1) Press release button and lift cover of delivery unit.

(2) Disconnect two pieces of 1/8 in. handpiece tubing (1, Figure 1) from kink valve assembly (2).

(3) Disconnect 1/4 in. clear tubing (3) from kink valve assembly (2).

(4) Disconnect 1/4 in. handpiece tubing (4) from 1/4 in. clear tubing (5).

(5) Disconnect 1/8 in. clear tubing (6) from check valve (7).

(6) Remove handpiece tubing.

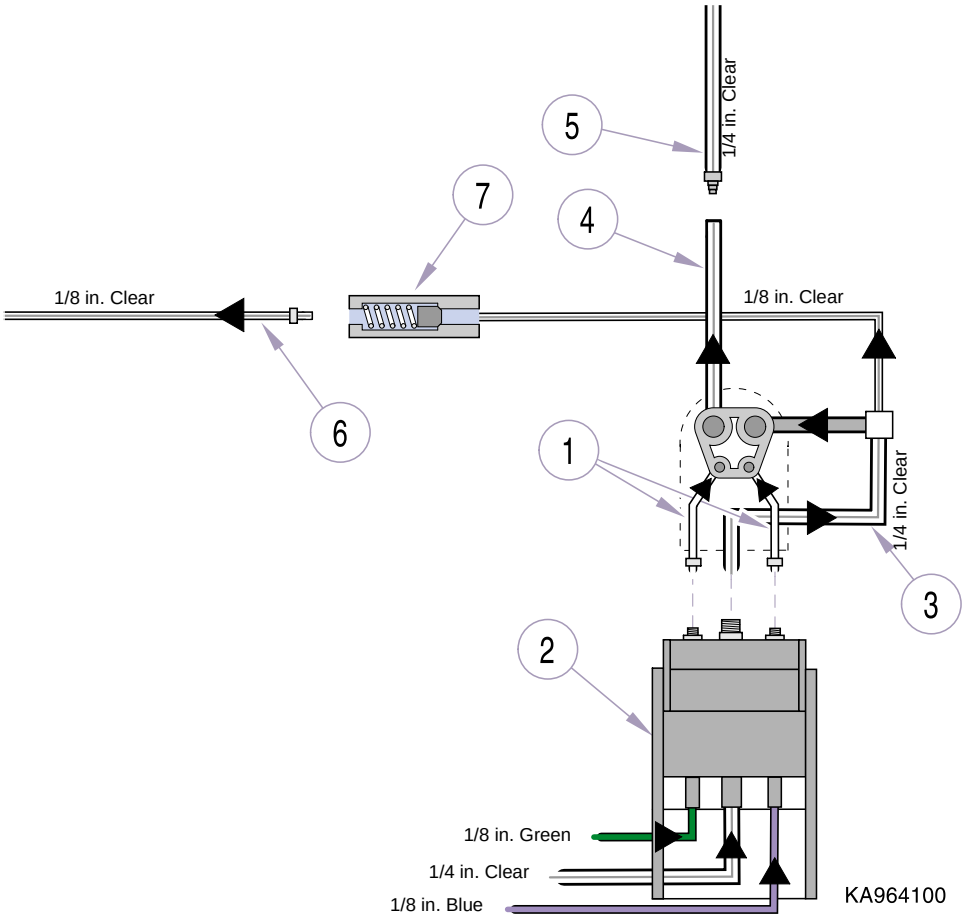

Figure 1. Standard Handpiece Tubing Removal

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POWER PACK INSTALLATION

(1) Press release button and lift cover of delivery unit.

(2) Peel adhesive backing from velcro “loop” (1, Figure 2) and apply to back of power pack (2).

(3) Peel adhesive backing from velcro “hook” (3) and apply to inside of delivery head cover (4) as shown.

(4) Align velcro (1) on power pack (2) with velcro (3) on delivery head cover (4) and apply pressure so that power pack is held securely in place.

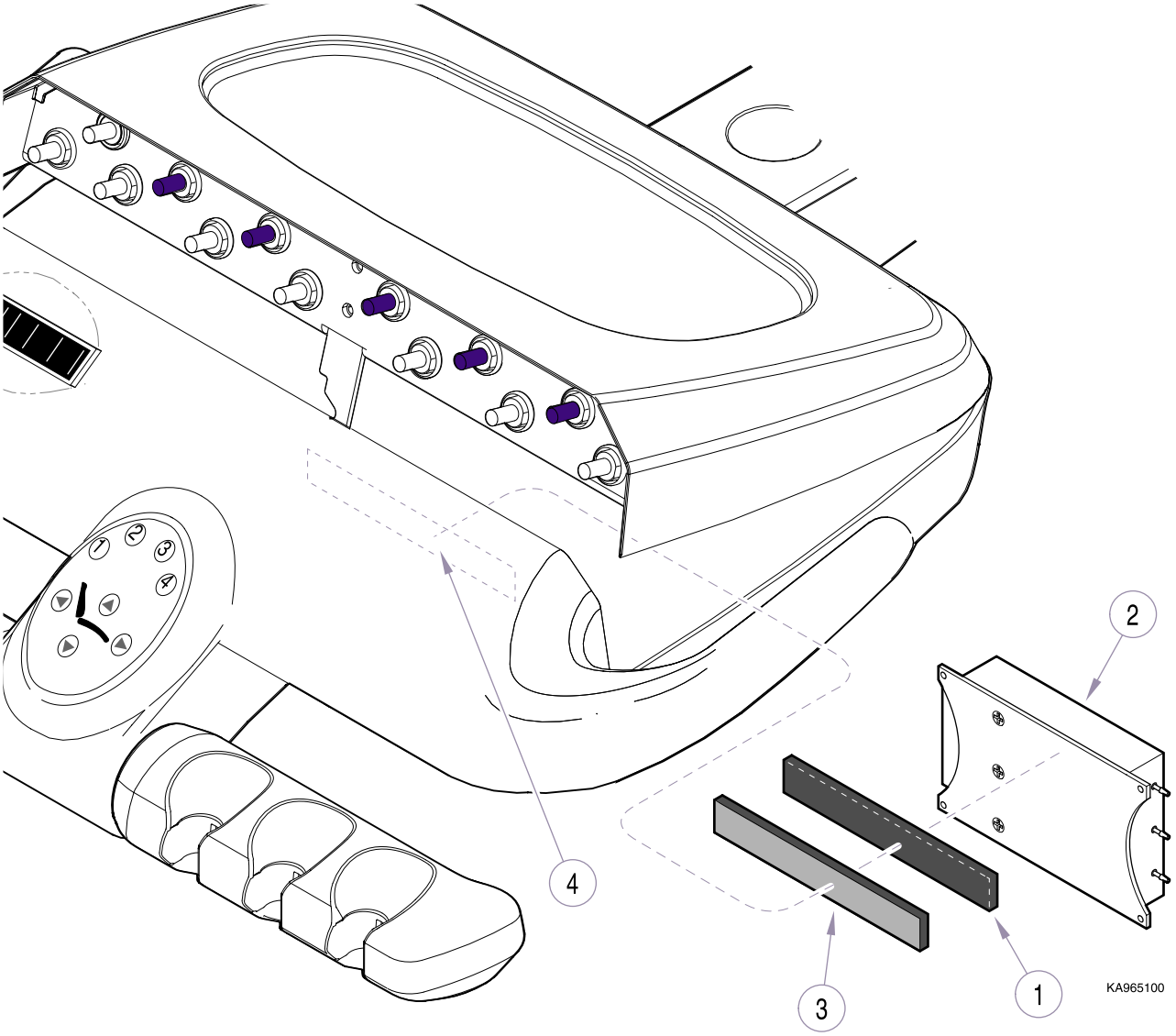

Figure 2. Power Pack Installation

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ILLUMINATED HANDPIECE TUBING INSTALLATION

EQUIPMENT ALERT
Refer to handpiece tubing positions in Figure 3 to ensure proper connections are made. Failure to do so could result in handpiece malfunction.

NOTE
Install uni-clamps (included w/kit) onto 1/8 in. tubing before making connections in the following procedure.

(1) Insert illuminated handpiece tubing up thru hole in delivery head.

Coolant Air

(2) Connect 1/8 in. handpiece tubing (1, Figure 3) to fitting (A) of kink valve assembly (2). Secure with uni-clamp.

Coolant Water

(3) Connect 1/8 in. handpiece tubing (3) to fitting (B) of kink valve assembly (2). Secure with uni-clamp.

Drive Air

(4) Connect 1/4 in. clear tubing (4) ***[from fitting of handpiece tubing]*** to fitting (C) of kink valve assembly (2).

Exhaust Air

(5) Connect 1/4 in. handpiece tubing (5) to 1/4 in. clear tubing (6).

To Drive Air Pressure Gauge

(6) Connect 1/8 in. clear tubing (7) to check valve (8). Secure with uni-clamp.

To Power Pack

(7) Connect one end of 1/8 in. clear tubing (9) ***[included w/kit]*** to tee fitting (10).

(8) Connect other end of 1/8 in. tubing (9) to power pack (11). Secure with uni-clamp.

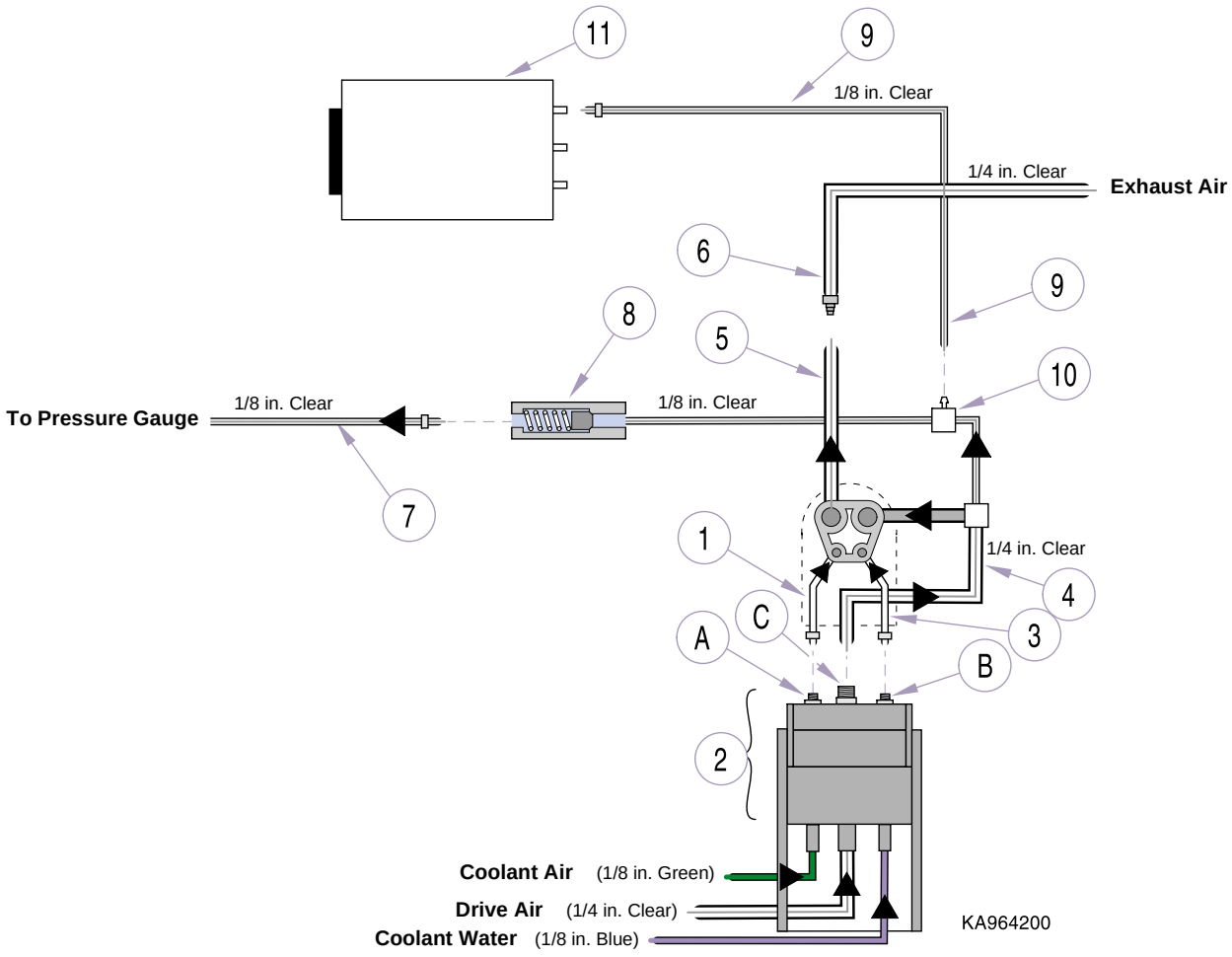

Figure 3. Illuminated Handpiece Tubing Installation

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ELECTRICAL CONNECTIONS

In Delivery Head:

(1) Connect black wire (1, Figure 4) ***[from handpiece tubing]*** to black wire (2) ***[included w/kit]***; then secure with wire nut (3).

(2) Connect white wire (4) ***[from handpiece tubing]*** to white wire (5) ***[included w/kit]***; then secure with wire nut (3).

EQUIPMENT ALERT

The position of the wiring connections on the power pack (H1, H2, or H3) depend upon which fitting (on the power pack) the tubing was connected to in the previous procedure. Refer to Figure 4 for proper connection points before performing Step 4. [Example: If tubing is connected to fitting (A, Figure 4), connect wires to H3 (A); If tubing is connected to fitting (B), connect wires to H2 (B), etc.].

(3) Connect black wire (2) ***[included w/kit]*** to proper connection point (H1, H2, or H3) of power pack (6).

(4) Connect white wire (5) ***[included w/kit]*** to proper connection point (H1, H2, H3) of power pack (6).

(5) Connect one end of green wire (7) ***[included w/kit]*** to connection point (AC) on power pack (6).

(6) Connect other end of green wire (7) to terminal strip (8) as shown.

(7) Connect one end of orange wire (9) ***[included w/kit]*** to connection point (AC) on power pack (6).

(8) Connect other end of orange wire (9) to terminal strip (8) as shown.

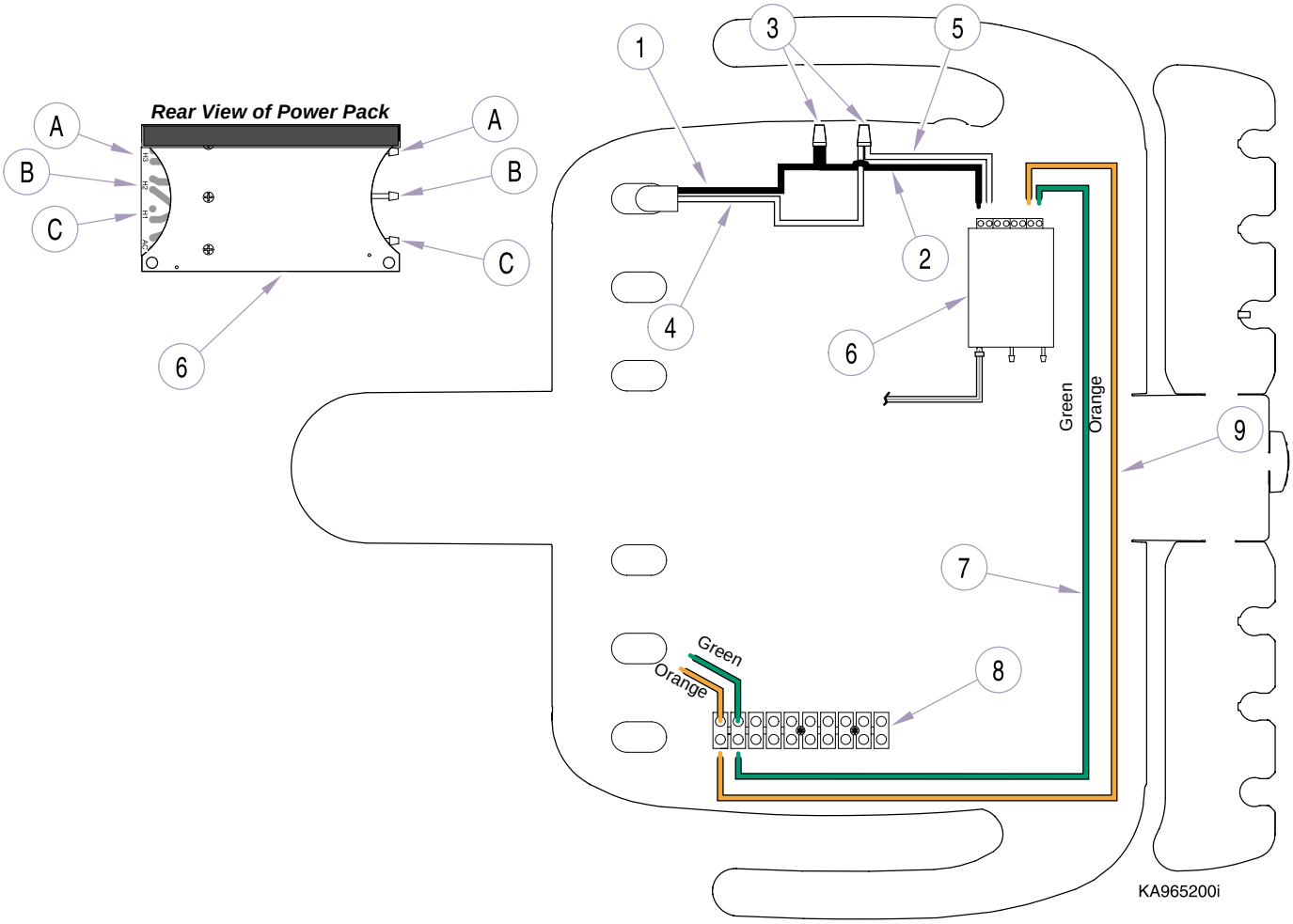

Figure 4. Electrical Connections *(In Delivery Head)*

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ELECTRICAL CONNECTIONS- *continued*

In Junction Box:

(1) Remove junction box cover.

Power to Handpiece Illumination System

(2) Connect green wire (1, Figure 5) ***[from umbilical]*** and orange wire (2) ***[from umbilical]*** to two wires (3) ***[from transformer].***

(3) Plug transformer (4) into receptacle (5) in junction box.

(4) Replace junction box cover.

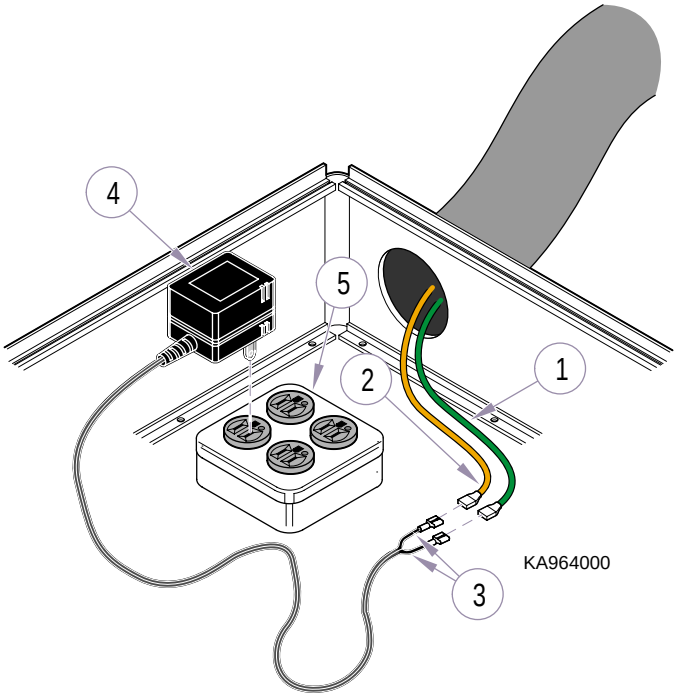

Figure 5. Electrical Connections
(In Junction Box)

VOLTAGE ADJUSTMENT

EQUIPMENT ALERT
The system is pre-set to deliver 3.35 v at the lamp. This procedure is not necessary unless the handpiece being installed requires a different voltage.

NOTE
There are three adjustment screws to permit individual adjustment of up to three handpieces on the same system.

(1) Install handpiece connector w/lamp, and handpiece onto handpiece tubing.

(2) Place the leads of a multimeter on appropriate terminals of power pack (1, Figure 6). *[Terminal location varies w/tubing position; refer to Figure 4 if necessary]*.

(3) Using an allen wrench, turn appropriate adjusting screw (2) fully down (counterclockwise).

(4) Step on foot control so that lamp illuminates; then slowly turn adjusting screw (2) clockwise until multimeter reads 0.5 v higher than lamp specification.

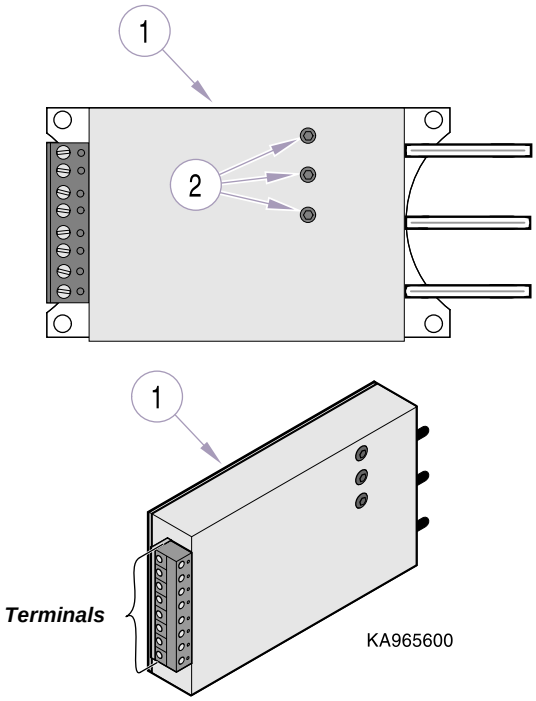

Figure 6. Voltage Adjustment

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